



2 1/2

12

10

12

12

12

14

13

11 1/2

4

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105

( 21°26'N 159°03' at 1200 )

Location 21°35'N 159°40'W to 21°15'N 157°55'W

Observer

Date 5 February, 1968 Time 0630 to 1800

Weather

11.5  
103 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross	4							
Black-footed Albatross	8							16 on dead & released
Wedge-tailed Shearwater								0.0
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird	1							
White-tailed Tropicbird	1							
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird	1							
Golden Plover								
Ruddy Turnstone	1							
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern			212					Immatures? present. 18.4
Gray-backed Tern	1							
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
Jaeger	6							
booby	2							
Tern		40						
bird	1							Total birds = 278



56  
90  

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146



1  
46  
30  
16  
10  

---

102





34

36

17

87



within 50 mi Laysan Isl. all day

Location  $25^{\circ} 25' N$   $171^{\circ} 49' W$  to 6 mi NW Laysan Isl.

Observer

Date 11 February, 1963 Time 0700 to 1348

Weather

75 miles 6.9

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross		20+						
Black-footed Albatross			100+					
Wedge-tailed Shearwater								0.0
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel		40+++						→ covered water at one point
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird	/							
White-tailed Tropicbird								
Masked Booby	6							
Brown Booby								
Red-footed Booby		15						
Great Frigatebird	2							
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern								0.0
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
Booby	6							
Shearwater-Petrel	1							

Total birds = 191

(21° 41' N  $\rightarrow$  174° 56' W at 1200)

Location 22° 14' N  $\rightarrow$  174° 32' W to 20° 16' N  $\rightarrow$  174° 46' W

Observer A. T. F.

Date 14 MARCH, 1963 Time 0900 to 1900

Weather

10.0

120 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross	1+							
Black-footed Albatross	4+							2 collected
Wedge-tailed Shearwater								0.0
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird								
Masked Booby								
Brown Booby								
Red-footed Booby	2							
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern	2							0.2
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
Booby	3							
Tern	1							
Shearwater-Petrel	2							
Bird	2							

Total birds = 17

MARCH  
1963

1  
36  
48  
84

MARCH

(17°31'N 174°58'W at 1000 about 1/2 way)

Location 18°08'N 174°58'W to 16°44'N 175°00'W

Observer \_\_\_\_\_ Date 15 March, 1963 Time 0700 to 1400

Weather \_\_\_\_\_ 7.0

84 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross	2+							
Wedge-tailed Shearwater								0.0
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird								
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern								6.0
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
Shearwater - Petrel bird	2 1							total birds = 5

0.7

(12°28'N 175°41'W at 1200)

Location 13°32'N 175°38'W to 11°27'N 175°39'W

Observer

Date 16 March, 1963 Time 0725 to 1800

Weather

10.6  
124 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater								0.0
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird	3							
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern	7							0.7
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
bird	2							Total birds = 12









Location  $00^{\circ}42'N \rightarrow 169^{\circ}42'W$  to  $02^{\circ}23'N \rightarrow 168^{\circ}41'W$

Observer

Date 27 March, 1963 Time 0900 to 1845

Weather

9.9

119 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater		18						1.8
Christmas I. Shearwater	5	13						
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird								
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern								0.0
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
Shearwater-Petrel			122±					
								Total birds = 153

15.6







( 19°18' N 159°05' W at 1/2 way )

Location 18°<sup>39'</sup> N 159°<sup>51'</sup> W to 19°59' N 158°34' W  
Observer \_\_\_\_\_ Date 31 March, 1963 Time 0730 to 1815  
Weather \_\_\_\_\_

10.8  
103 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross	1							
Wedge-tailed Shearwater		30						2.8
Christmas I. Shearwater		11						
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird	1							
Masked Booby								
Brown Booby								
Red-footed Booby	3							
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern			31					2.9
Gray-backed Tern		1						
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
Leach's Storm Petrel	3							
Shearwater-Petrel		10						
birds		50						
								Total birds = 140

~~10.7~~

17.0